

Time Allowed : 2½ hours

Max. Marks : 80

General Instructions :

Attempt all questions from Section A and any four questions from Section B.
All working, including rough work, must be clearly shown, and must be done on the same sheet as the rest of the answer.

Omission of essential working will result in loss of marks.

The intended marks for questions or parts of questions are given in brackets [].
Mathematical tables are provided.

SECTION - A (40 Marks)

(Attempt all questions from this Section)

Question 1 : Choose the correct answers to the questions from the given options:

[15]

- (i) A consumer bought a T.V. from a dealer at a discount of 20% on the marked price of ₹40,000. If the rate of GST is 18%, then the tax paid by the consumer is :
(a) ₹5760 (b) ₹2880 (c) nil (d) ₹7200
- (ii) The discriminant of $2x^2 - 5x + 1 = 0$ is :
(a) 25 (b) 33 (c) 17 (d) 15
- (iii) If $(x - 2)$ is a factor of $x^2 + ax + 10$, then the value of a is :
(a) 7 (b) -7 (c) 4 (d) -5
- (iv) The order of the matrix $\begin{bmatrix} 7 \\ 5 \\ -6 \end{bmatrix}$ is :
(a) 1×3 (b) 3×1 (c) 3×0 (d) 1×1
- (v) The n th term of the AP 15, 10, 5, ... is :
(a) $5n - 20$ (b) $20 - 5n$ (c) $20 + 5n$ (d) $10 + 5n$
- (vi) The reflection of the point $P(1, -2)$ in the line $y = -1$ is :
(a) $(-3, -2)$ (b) $(1, -4)$ (c) $(1, 4)$ (d) $(1, 0)$
- (vii) In the figure, $AB \parallel PQ$, $CQ = 6$ cm, $CB = 14$ cm and $AB = 7$ cm. The length of PQ is :
(a) 3 cm
(b) 3.5 cm
(c) 4 cm
(d) 4.2 cm
- (viii) If $P(A)$ and $P(\text{not } A)$ are complementary events and $P(A) = 0.15$, then $P(\text{not } A) = ?$
(a) 0.35 (b) 0.85 (c) 0.3 (d) cannot be determined
- (ix) If $25 - 4x \leq 16$, then, the smallest value of x , when $x \in \mathbb{R}$ is :
(a) 2.25 (b) 2.5 (c) 3.5 (d) 3
- (x) The total surface area of the adjoining figure is:
(a) 880 cm^2 (b) 110 cm^2
(c) 440 cm^2 (d) 210 cm^2



Advanced Programme Mathematics Past Papers Grade 10

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Advanced Programme Mathematics Past Papers Grade 10:

Resources in Education ,1990 **Choosing Your A-Levels and Other Post-16 Options** Gary Woodward,2008-09-15
This book gives an overview of the different courses and qualifications available to young people post GCSE It profiles over 40 of the most popular A level AS level and new diploma subject areas listing everything students need to know to make an informed choice The only book on the market to link post 16 options to future career aspirations it contains independent advice providing all the options so that students can choose which route is best for them without outside influence pressure Easily navigable it is divided into sections by subject area and listed alphabetically making it easy for students to browse Author Gary Woodward is a qualified careers consultant and has significant experience of advising young people about education and career options as well as job hunting

Proceedings of the Fourth International Congress on Mathematical Education M. Zweng,Green,Kilpatrick,Pollack,Suydam,2012-12-06 Henry O Pollak Chairman of the International Program Committee Bell Laboratories Murray Hill New Jersey USA The Fourth International Congress on Mathematics Education was held in Berkeley California USA August 10 16 1980 Previous Congresses were held in Lyons in 1969 Exeter in 1972 and Karlsruhe in 1976 Attendance at Berkeley was about 1800 full and 500 associate members from about 90 countries at least half of these come from outside of North America About 450 persons participated in the program either as speakers or as presiders approximately 40 percent of these came from the U S or Canada There were four plenary addresses they were delivered by Hans Freudenthal on major problems of mathematics education Hermina Sinclair on the relationship between the learning of language and of mathematics Seymour Papert on the computer as carrier of mathematical culture and Hua Loo Keng on popularising and applying mathematical methods George Polya was the honorary president of the Congress illness prevented his planned attendance but he sent a brief presentation entitled Mathematics Improves the Mind There was a full program of speakers panelists debates miniconferences and meetings of working and study groups In addition 18 major projects from around the world were invited to make presentations and various groups representing special areas of concern had the opportunity to meet and to plan their future activities *Stanford Bulletin* ,2006

Independent Schools ,2000 **Research in Education** ,1972 *Popular Science Monthly and World Advance* ,1927

The ETS Test Collection Catalog Educational Testing Service. Test Collection,1993 The major source of information on the availability of standardized tests Wilson Library BulletinCovers commercially available standardized tests and hard to locate research instruments

Report ... New South Wales. Department of Education,1888 *Announcements* University of Chicago,1912

Summer Quarter University of Chicago,1908 **Appendix to the Journal of the House of the Representatives** New Zealand. Legislature. House of Representatives,1907

Publishers' circular and booksellers' record ,1876 *Information Magazine* ,2007 *Michigan School Moderator* ,1898 *Educational Times* ,1896

Pitman's Journal of Commercial Education ,1903 **Gas World** ,1922 Educational Times and Journal of

the College of Preceptors ,1914

The Educational Times, and Journal of the College of Preceptors ,1895

Advanced Programme Mathematics Past Papers Grade 10: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Advanced Programme Mathematics Past Papers Grade 10 : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Advanced Programme Mathematics Past Papers Grade 10 : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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